

999 Peachtree St. N.E. Atlanta, GA 30309-3996 404.853.8000 Fax 404.853.8806 www.sutherland.com

ATI ANTA AUSTIN HOUSTON NEW YORK WASHINGTON DC

Facsimile

CONFIDENTIAL

Date: February 22, 2010

Pages (including cover): 4

TO:

Recipient Name

Firm/Company

Telephone

Examiner Lynn Bristol U.S. Patent & Trademark Office 571.273.6883

571.272.6883

FROM:

WILLIAM L. WARREN

Email address:

bill.warren@sutherland.com

Telephone:

404.853.8081

User number: 1295 Client number:

20825-0004

Message:

Re: U.S. Application No. 10/799,417

Applicant: Paul A. Krieg

Title: "METHODS FOR MODULATING ANGIOGENESIS WITH APELIN COMPOSITIONS"

Our Ref. No.: 20825-0004

Dear Examiner Bristol:

In response to our telephone conference on Friday, February 19th, attached please find a revised set of claims. I look forward to speaking with you in the near future.

William L. Warren Reg. No. 36,714

This message is intended only for the use of the individuals or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination or distribution of this communication to other than the intended recipient is strictly probabled. If you have received this communication in error, please notify us immediately by collect telephone at 404.853.8813 and return the original message to us at the above address via the U.S. Postal Service, Thank you.

U.S. Utility Patent Application Serial No. 10/799,417 entitled, "METHODS FOR MODULATING ANGIOGENESIS WITH APELIN COMPOSITIONS"

PROPOSED AMENDMENTS AS OF FEB 23, 2010 FOR DISCUSSION ONLY - DO NOT ENTER

- (Currently Amended) A method of inhibiting angiogenesis in a <u>patient in need thereof</u> biological sample, comprising
 - a. providing a biological sample; and
 - b. combining the biological sample in vivo with administering to the patient an angiogenesis-inhibiting amount of a composition comprising an inhibitor of apelin activity an anti-apelin antibody or fragment thereof that binds apelin polypeptide of SEO ID NO:4 and inhibits angiogenesis, wherein the angiogenesis is characterized by in vivo generation of a new blood vessel from an existing blood vessel.

2.-4. (Canceled)

- 5. (Original) The method of Claim 1, wherein the composition further comprises an anticancer agent and wherein the anti-cancer agent is selected from the group consisting of a chemotherapeutic agent, a radiotherapeutic agent, an anti-angiogenesis agent, and an apoptosis-inducing agent.
- 6. (Previously Presented) The method of Claim 5, wherein the composition comprises an anti-angiogenesis agent that inhibits an angiogenic factor selected from the group consisting of VEGF (VEGF-A), VEGF-B, VEGF-C, VEGF-D, VEGF-E, PIGF, acidic fibroblast growth factor (FGF-1), basic fibroblast growth factor (FGF-2), PDGFB, EGF, LPA, HGF, PD-ECF, IL-8, angiogenin, TNF-alpha, TGF-beta, TGF-alpha, proliferin, and PLGF.

7.-20. (Canceled)

- (Original) The method of Claim 1, wherein the composition comprises a
 pharmaceutically acceptable carrier.
- (Currently Amended) The method of Claim 1, wherein the <u>patient is a mammal</u> biological-sample is a mammalian biological sample.
- (Currently Amended) The method of Claim 1, wherein the <u>patient is a human biological</u> sample is a human biological sample.
- 24-25. (Canceled)
- Currently Amended) The method of Claim 1 24, wherein the patient has a disease or condition involving angiogenesis.
- 27. (Canceled)
- 28. (Currently Amended) The method of Claim 24, further comprising
 - administering to the patient a therapeutically effective amount of an anti-cancer agent,

wherein the anti-cancer agent is selected from the group consisting of a chemotherapeutic agent, a radiotherapeutic agent, an anti-angiogenic agent, and an apoptosis-inducing agent.

- (Original) The method of Claim 28, wherein the anti-cancer agent is an anti-angiogenic agent.
- 30. (Previously Presented) The method of Claim 28, wherein the anti-angiogenic agent is an inhibitor of an angiogenic factor selected from the group consisting of VEGF (VEGF-A), VEGF-B, VEGF-C, VEGF-D, VEGF-E, PIGF, acidic fibroblast growth factor (FGF-1), basic fibroblast growth factor (FGF-2), PDGFB, EGF, LPA, HGF, PD-ECF, IL-8, angiogenin, TNF-alpha, TGF-beta, TGF-alpha, proliferin, and PLGF.
- 31.-59. (Canceled)

- 60. (New) A method of inhibiting angiogenesis in a biological sample, comprising contacting the biological sample with an angiogenesis-inhibiting amount of a composition comprising an anti-apelin antibody or fragment thereof that binds the apelin polypeptide of SEQ ID NO:4 and inhibits angiogenesis, wherein the angiogenesis is characterized by in vivo generation of a new blood vessel from an existing blood vessel.
- (New) The method of Claim 60, wherein the biological sample is a mammalian biological sample.
- (New) The method of Claim 60, wherein the biological sample is a human biological sample.